Data Formats and Procedures Standing Committee Meeting GFZ-Potsdam, October 09, 2016, 11:30 – 13:00

- Welcome members and guests.
- CPF and CRD issues. (see Appndix)
 - Small group met shortly before the meeting to discuss the details related to the ELT mission.
 - New study group will discuss the required ELT changes and a list of possible other changes within the next two years.

New station change log format

- Christian reported on his new possibility to edit the station history log on the EDC Web page. (see Appendix)
- Stations need to log into EDC with the station account and can then edit or update the station history log.
- During the discussion there was the desire that this procedure could also be used for the site logs. Christian will add this feature.
- An other wish was that the access can be done using APIs. This can also be realized.
- Within the next weeks EDC will provide both applications.
- Christian was invited to report at the Network and Engineering SC by Matt.

Data harmonization

- In the future stations will be asked to deliver data to both operation centers for data reliability and safety.
- Therefore the quality checks at both OCs need to be harmonized. This will be finished during the workshop.
- The question on a common point of contact for all ILRS members came up.
 - Carey will create a list on the ILRS Web pages (point of contact) with at least an email address for stations, analysts and centers.

New leap second procedure

- Randy reported on implementing the SC's and CB's recent decisions on handling the leap second.
 - Stations stop tracking before midnight and start again after midnight, with the leap second applied (coffee break procedure).
 - After midnight the stations use CPFs that start on the new day and have leap second applied. The leap second flag is no longer important.
- The proposal has already been accepted by the CB...

Preparation for clinic session

- Restricted tracking required for new missions will be presented in clinic see appendix.
 - go/nogo flag
 - power restrictions
 - segment restictions
 - schedule restrictions.

- Study Group on Re-use of software
 - Short meeting addressing problems.
 - Separate minutes are available from ILRS.
- Next meeting: 2018 in Canberra, ev. 2017 in Riga.

Participants:

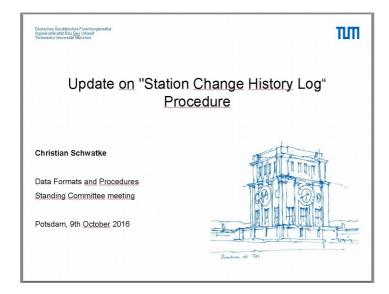
Members:

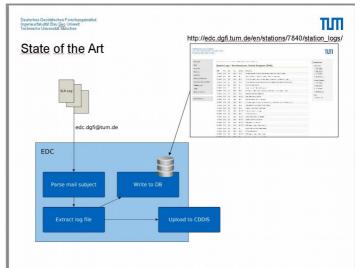
Horst Mueller
Jan McGarry
Randell Ricklefs
Christian Schwatke
Mike Pearlman
Jens Steinborn
Julie Horvath
Scott Wezel
Carey Noll

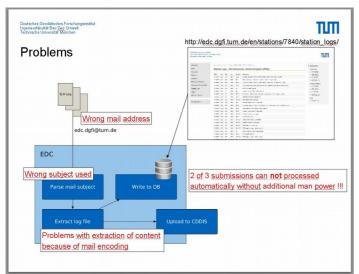
Nonmembers:

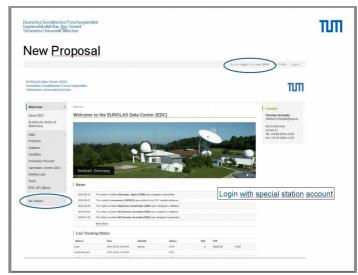
Kate Stevenson Franck Reinquin Anja Schlicht John Degnan Kalvis Salming Jorge del Pino Matt Wilkinson You Zhao

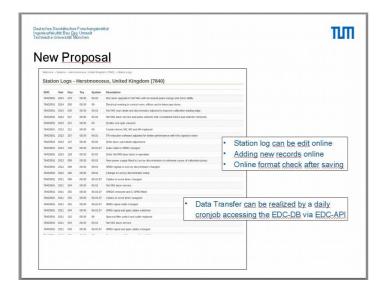
Appendix1: Schwatke

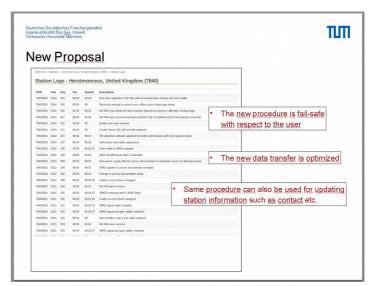












Report to ILRS DF&P SC Various Topics

R. L. Ricklefs **UT CSR**

CPF Issues – ELT data

- Transponder clock needs to have offset and
- Current H4 has transponder oscillator drift rate, but no epoch, which they need
- The record has not been used by any other project, so impact will be minimal if the field is added to the end of the record
- Could be handled with separate file like LRO?

2

2016 October 9 ILRS DF&P SC

CPF/CRD issues - longer term

- Several possible updates
 - - . Time continues past 86400 seconds without wrapping (approved at last Annapolis meeting)
 - · Several lunar additions
 - · Software version configuration record
 - CPF
 - · Rewrite manual without emphasis on transition from TIVs
 - · Inertial vector option not used
- Would like to form a study group to workout changes for next meeting in 1-2 years

2016 October 9 ILRS DF&P SC

Leap Second December 31, 2016

- Changes in handling leap second developed by SG and approved by CB
- Instructions sent to prediction providers, stations, and analysts

-) Stations:

 On December 31, track as normal up until the end of the UTC day.

 On January 1 UTC, be sure your stations clock is updated, and switch to the CPF files that start on January 1. Do NOT use CPF files that start in December.

 Tracking a staellite pass through the December 31/January 1 crossover will probably not work properly.

 Prediction providers:

 Nost of you do not need to change anything. It does not matter whether you are setting the leap second flag or not, as long as it it is set consistent with the CPF document.

 The CPF files starting on January 1 and thereafter MUST NOT have the leap second flag set to '1'. After the last leap second, one or two providers did not reset the flag for a few days into January.

 Be sure to have your leap second files updated properly.

 JAnalysts:

- Analysts:
 Be sure to update your leap second files!"
- There has been no response

2016 October 9 ILRS DF&P SC

Restricted Tracking

- · Being discussed in the clinic this week
- Need to change nomenclature
 - Pass segments
 - · Real time
 - · Laser on and off during short pass
 - · ALOS and GPB
 - Schedule segments
 - · During CPF scheduling and prep
 - · Remove large parts or allow short parts of long passes
 - · LROLR and Radioastron

2016 October 9 ILRS DF&P SC

Reusable Software

- · Added link to Herstmonceaux's ADS-B based aircraft safety system software
- · Have submitted IP "disclosure" to UT for NASA regarding MLRS lunar software written solely by UT personnel
- · "Disclosure" regarding remainder of MLRS software having developers from various contractors as well as civil servants has been released to UT with some remaining issues
- No one has fulfilled their intentions to supply additional software

6

2016 October 9 ILRS DF&P SC